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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/665,964	09/18/2003	Theodore M. Taylor	108298724US	8350		
. 25096	7590 06/15/2005		EXAM	EXAMINER		
PERKINS CO	DIE LLP		MCDONALD,	MCDONALD, SHANTESE L		
PATENT-SEA						
P.O. BOX 124	7	•	ART UNIT	PAPER NUMBER		
SEATTLE, W	'A 98111-1247		3723			
			DATE MAIL ED: 06/15/200	ς.		

Please find below and/or attached an Office communication concerning this application or proceeding.

		M				
	Application No.	Applicant(s)				
	10/665,964	TAYLOR ET AL.				
Office Action Summary	Examiner	Art Unit				
	Shantese L. McDonald	3723				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with	the correspondence address	· ·			
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a repeply within the statutory minimum of thirty of will apply and will expire SIX (6) MONTI ute. cause the application to become ABA	ly be timely filed (30) days will be considered timely. 1S from the mailing date of this communication NDONED (35 U.S.C. & 133).	,			
Status			>			
1) Responsive to communication(s) filed on 21	March 2005		•			
_	nis action is non-final.		•			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merit						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	, , , , , , , , , , , , , , , , , , , ,					
<u>_</u>						
4) Claim(s) <u>1-48</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) <u>1-40</u> is/are allowed. 6) Claim(s) <u>41-45</u> is/are rejected.						
7) Claim(s) <u>46-48</u> is/are objected to.						
8) Claim(s) 40-45 Israle objected to.						
			-			
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	• • • • • • • • • • • • • • • • • • • •	• • •	n .			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the I		•	1).			
The dain of decidation is objected to by the t	LAMITHE . NOTE THE ATTACHED V	Since Action of form F10-132.	٠.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:	mto house house seasting d					
1. Certified copies of the priority docume2. Certified copies of the priority docume		aliantian Na				
2. Certified copies of the priority docume3. Copies of the certified copies of the priority	• •	* · · · · · · · · · · · · · · · · · · ·	•			
application from the International Bure	•	eceived in this National Stage				
* See the attached detailed Office action for a list of the certified copies not received.						
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Attachment(s)						
1) Notice of References Cited (PTO-892)	4) 🔀 Interview Sui	mmary (PTO-413)	• .,			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	8) 5) Notice of Info 6) Other:	ormal Patent Application (PTO-152)	•,			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 43 recites the limitation "the surfactant" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 41-44 are rejected under 35 U.S.C. 102(e) as being anticipated by Bonner et al.

Bonner et al. teaches a method for removing material from a microfeature workpiece having a doped silicon material, (col. 9, lines 17-29), comprising disposing a first polishing liquid adjacent to the doped silicon material and removing a first portion of the doped silicon material by chemical mechanical planarization, the first polishing liquid having a first composition and disposing a second polishing liquid adjacent to the doped silicon material and removing a second portion or the doped silicon material and by

CMP, the second polishing liquid having a second composition and including a surfactant, (col. 6, lines 2-64). Bonner et al. also teaches that removing the first portion

of the doped silicon material includes removing the first portion at a first rate and removing the second portion at a second rate, the second rated being less than the first

rate, (col. 14, lines 24-26).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 45 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bonner et al.

Bonner et al. teaches all the limitations of the claims except for the surfactant being in the polishing liquid from about 0.001% to about 1.0% and the surfactant being non-ionic. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the polishing liquid of Bonner et al. with a non-ionic surfactant in the liquid from about 0.001% to about 1.0%, in order to vary liquids removal rate, and since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art.

Allowable Subject Matter

Claims 46-48 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 1-40 are allowed.

Response to Arguments

Applicant's arguments with respect to claims 1-48 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shantese L. McDonald whose telephone number is (571) 272-4486. The examiner can normally be reached on 8:00 a.m. - 4:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Hail can be reached on (571) 272-4485. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

S.L.M. June 2, 2005

> Joseph J. Hail, III Supervisory Patent Examiner Technology Center 3700